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PATENT

SPECIFICATION



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PROVISIONAL SPECIFICATION.

Improvements in or relating to Clips or Clamps for use in Mounting and Securing Rifles upon Cycles.

I, ALBERT VICTOR TERRY, Director of the Firm of Herbert Terry & Sons, Limited, Novelty Works, Redditch, in the County of Worcester, do hereby declare the nature of this invention to be as follows:—

This invention comprises certain improvements in or relating to clips or supporting devices, and is of the type in which a rotary adjustment is provided for. The present invention has for its purpose to provide for a particularly rigid retention from rotation of the adjustable part in its adjusted condition, and also to provide for a particularly fine degree of rotary adjustment.

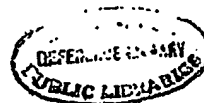
According to the present invention, between the respectively adjustable parts a male and female cone clutch is incorporated. Means are provided for bringing the male and female cones into intimate contact so that relative rotary adjustment or movement of the cones is thereby prevented in a particularly effective manner, while by releasing the effort which retains the cones in intimate contact the one cone can be displaced rotarily in relation to the other and again secured with the finer degree of adjustment.

The present invention is a clip, bracket or device for supporting the butt of a rifle upon a cycle frame. This may involve a U-shaped or other suitable part for receiving the butt and a clip attached to the rear stay of the frame, and between this clip the male and female cone clutch is provided, a screw-threaded stem being axially incorporated and furnished with a wing nut to provide for the clamping of the cones.

In a convenient embodiment of the present invention, a clip for supporting the butt of a rifle may be adapted for attachment to the rear inclined fork stay of the cycle, and a clip may be provided having a part adapted to embrace this D or other stay, this clip being composed of a length or strip of sheet metal comprised of two main limbs, one of which may be of double thickness of metal formed by folding the extremity of the metal inwardly, and this limb may lie against the flat face of the D-stay, while the metal is continued around a major part of the convex face of the D-stay, and then continued away therefrom in a plane parallel with the plane of the other limb. To the outer face of this limb of single thickness which extends from the convex face of the stay, a shallow cup member is rivetted, or otherwise secured with its closed face or web adjacent to the limb, the circular wall of this cup member being coned outwardly from the said web or face, from which latter the diameter increases. Another sheet metal cup member has its web or closed face rivetted to the clip

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which receives the butt of the rifle. This cup member also has its circular wall coned, but the coning is so effected that the diameter decreases away from the web. The coned wall of the cup member last described is adapted to take into the coned wall of the other cup member.

The clip to which the male cone member is rivetted may be made from a strip of sheet metal formed substantially to a U-form, but having one straight arm and another arm diverted inwardly towards such straight arm, and at its extreme end turned outwardly. Through the straight arm of this clip to which the male cone is rivetted the stem of a bolt passes, this stem passing also axially through the female cone and through both limbs of the clip which embraces the cycle frame stay so that a wing nut may be screwed upon the end of the bolt to not only tighten the cones, but also tighten the clip around the cycle frame stay.

Internally the clip which receives the butt of the rifle may be lined with felt or other soft material to prevent abrasion, and to provide for the effective gripping of the rifle. The barrel of the rifle may be supported at a forward position as for instance by another clip secured to the handlebar.

Dated this 13th day of March, 1916.

LEWIS WM. GOOLD,
Fellow of the Chartered Institute of Patent Agents,
Agent for the Applicant,
5, Corporation Street, Birmingham.

COMPLETE SPECIFICATION.

Improvements in or relating to Clips or Clamps for use in Mounting and Securing Rifles upon Cycles.

I, ALBERT VICTOR TERRY, Director of the Firm of Herbert Terry & Sons, Limited, Novelty Works, Redditch, in the County of Worcester, do hereby declare the nature of this invention, and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention comprises certain improvements in or relating to clips or supporting devices, and is of the type in which a rotary adjustment is provided for. In connection with cycle saddle clips it has before been proposed to provide between the part which is clamped to the saddle and a part which is clamped to the saddle pin, a male and female cone clutch permitting of an angular adjustment, this clutch having been tightened by a clamping stem which serves to clamp the respective clutch parts to the saddle and the saddle pin.

According to the present invention such a clutch is adapted to a clip, bracket, or device for supporting the butt of a rifle upon a cycle frame. This involves a U-shaped or other suitable part for receiving the butt and a clip attached to the rear stay of the frame, and between this clip and the U-shaped or other part the male and female cone clutch is provided, a screw-threaded stem being axially incorporated and furnished with a wing nut to provide for the clamping of the cones.

In order that this invention may be clearly understood and readily carried into practice, reference may be had to the appended explanatory sheet of drawings, upon which:—

Figure 1 illustrates in perspective one form of clip according to the present invention adapted for securing the butt of a rifle to a cycle frame.

Figure 2 is a sectional elevation of the clip shown in Figure 1.

In a convenient embodiment of the present invention, the clip for supporting the butt of a rifle, may be adapted for attachment to the rear inclined fork stay of the cycle, and a clip *a* may be provided having a part adapted to embrace this stay, this clip being composed of a length or strip of sheet metal and having two main limbs. To the outer face of one of said limbs, a shallow cup member *b* is rivetted or otherwise secured with its closed face or web adjacent to the limb, the circular wall of this cup member being coned outwardly from the said web or face, from which latter the diameter increases. Another sheet metal cup member *c* has its web or closed face rivetted to the clip which receives the butt of the rifle. This cup member also has its circular wall coned, but the coning is so effected that the diameter decreases away from the web. The coned wall of the cup member last described is adapted to take into the coned wall of the cup member *b*.

The clip to which the male cone member is rivetted may be made from a strip *d* of sheet metal formed substantially to a U-form, but having the arms thereof diverted inwardly towards each other, and at their extreme ends turned outwardly. Through the arm of this clip to which the male cone *c* is rivetted the stem of a bolt *e* passes, this stem passing also axially through the female cone *b* and through both limbs of the clip *a*; a wing nut *f* may be screwed upon the end of the bolt to not only tighten the cones, but also tighten the clip *a* around the cycle frame stay. The bolt *e* may be headed at *g* and squared at *h* to prevent rotation thereof in relation to the clip *d*, and said clip *d* may be formed with a depression *j* so that the head *g* of the bolt will not form an inward projection within the clip.

Internally the clip which receives the butt of the rifle may be lined with felt or other soft material to prevent abrasion, and to provide for the effective gripping of the rifle.

The barrel of the rifle may be supported at a forward position as for instance by another clip secured to the handlebar.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. A clip or clamp for mounting a rifle upon a cycle, comprising relatively adjustable parts, a male and female cone clutch incorporated between said parts, and means for bringing the male and female cones into intimate engagement.
2. A clip for securing a rifle to a cycle, comprising or involving a member adapted to embrace a stay of the cycle frame, a member adapted to clip the butt of the rifle, male and female cone members secured respectively to said members, a stem passing axially through said male and female cone members, and a nut screwing upon said stem for forcing the cone members into intimate engagement.
3. A clip for securing a rifle to a cycle, as claimed in the last preceding claim, and in which the nut is also adapted to tighten the member embracing the stay of the cycle frame.
4. A clip for securing a rifle to a cycle, as claimed in the last preceding claim, in which the member for the reception of the butt of the rifle involves a sheet metal member to which one of the cone members is rivetted, and through which sheet metal member and the cone member the screwed stem is assembled, said stem having a head and squared or equivalently shaped part to prevent rotation of the said stem, and in which a sheet metal clip adapted to embrace a cycle frame stay has rivetted to one of its limbs a cone clutch member, and

having both of its limbs and said cone; clutch member perforated for the accommodation of the said stem; a nut being adapted to be screwed upon said stem to draw together the limbs of the clip and also to tighten the cones; substantially as set forth and illustrated in the accompanying drawings and of

5. A clip or clamp, for use in mounting and securing rifles upon eydles, substantially as herein set forth and illustrated.

Dated this 13th day of September, 1916.

LEWIS WM. GOOLD,

Fellow of the Chartered Institute of Patent Agents,

Agent for the Applicant,

5, Corporation Street, Birmingham.

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Fig. 1.

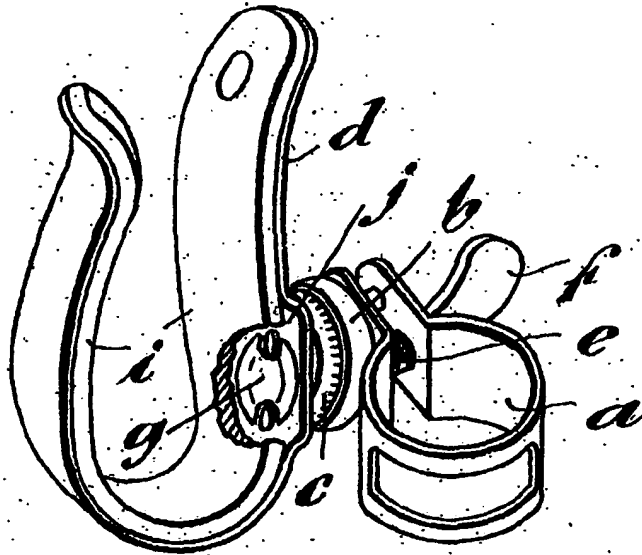
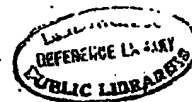
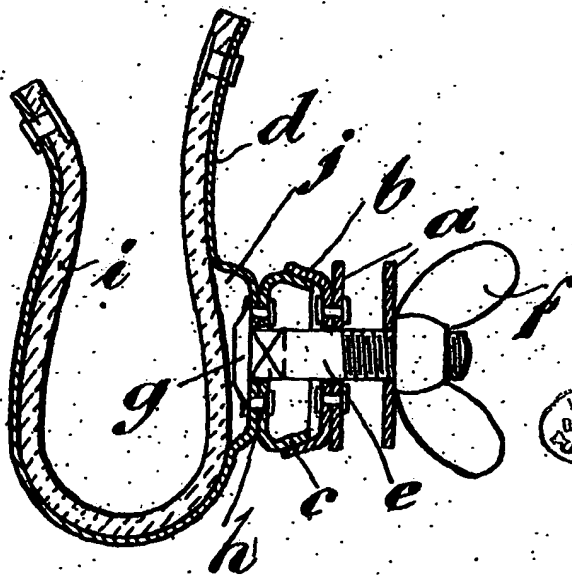


Fig. 2.



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[This Drawing is a reproduction of the Original on a reduced scale.]